

Project C

Image Selection and Display

Overview

In this module, you develop a Flask-based python web program that:

Displays a web page in a web browser allowing the user to click on a thumbnail image, and then display the full resolution version of that image.

Use Flask Objects to produce this web page. Start with a hard-coded list of image names and display the corresponding thumbnails in an html table, generated by your python program using Flask.

Getting Started

Follow the instructions to install Flask in Scotch-box. You will also need the image and thumbnail pics as well. Following the instructions for the Flask install, ensure that you locate the full-resolution images in static/images and the thumbnails in static/images/thumbnails.

Examine the two supplied files – hello-template.py and main.html. The hello-template file is a python script that uses Flask to render a table of three image thumb in html. It uses the main.html template that must be located in the templates subdirectory below the directory where hello-date is installed and running.

```
cp /var/www/main.html /home/vagrant/templates
cp /var/www/hello-template.py /home/vagrant
```

Launch hello-template.py like this:

```
python hello-template.py
```

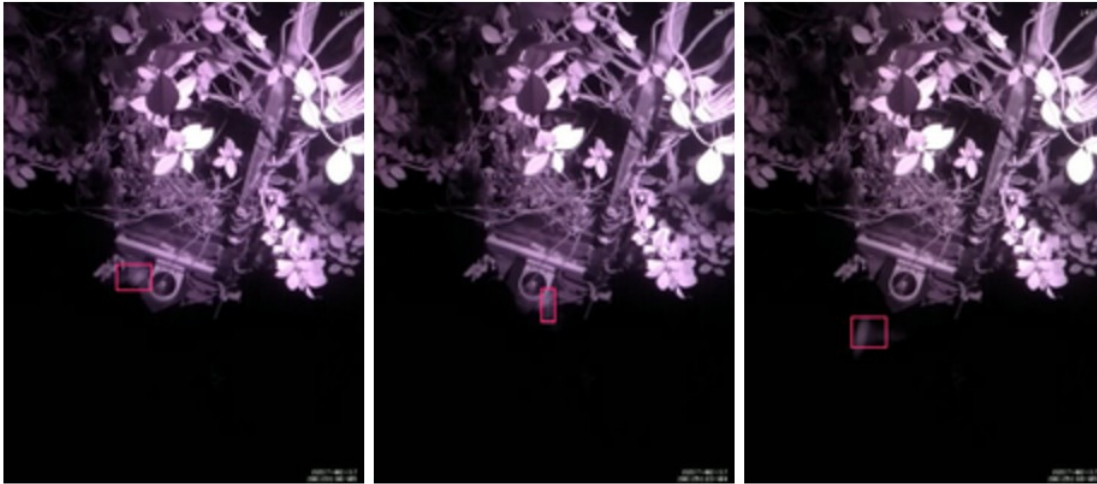
Browse to:

<http://192.168.33.10:8080/>

and you should see:

Hello, World!

The date and time on the server is: 2017-02-27 00:47



Clicking on any of these should bring up a larger version.

Tasks

- Do view source on this page and examine the html. This was generated by Flask from hello-template.py and main.html.
- Examine the source code for hello-template.py. Notice that the filenames shown in the html page are hard-coded in a list in the Python script.
- Add more images to this list, and modify main.html so that multiple rows of images can be displayed.
- Note that the important differences between the thumbnails and the full-resolution images are that the thumbnails are in static/images/thumbnails and are in .png format, while the full-resolution images are in static/images and end in .jpg. Take account of this when generating each from the list in hello-template.py.
- Embellish the page in any way you want (CSS/Bootstrap, hard-coded html, whatever).